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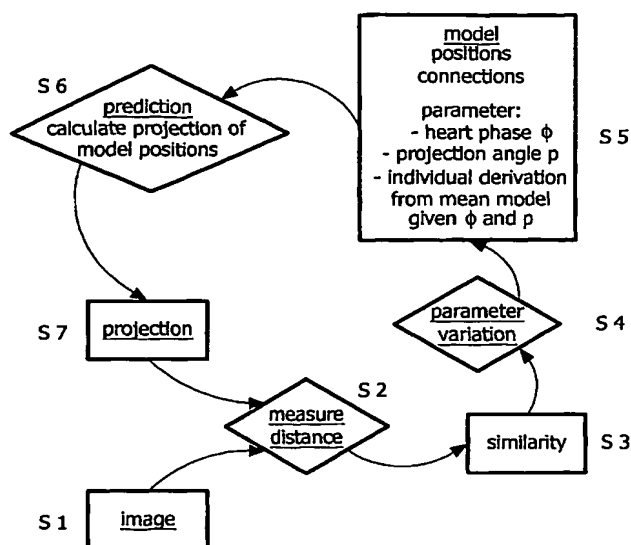
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(54) Title: METHOD OF DETERMINING A STRUCTURE OF A MOVING OBJECT



(57) Abstract: In patients with chronic total occlusions (CTO) in coronary arteries, the whole vessel branch beyond the CTO is usually not visible in angiographic images because no contrast agent is transported there. According to an exemplary embodiment of the present invention, a model of a structure of interest of a moving object, i.e. for example, a model of the coronary artery tree of the human heart is applied to a data set or image of the object interest. The model is adapted to features of the image. Then, a location of at least one portion of the structure is estimated by using the adapted model. According to an exemplary embodiment of the present invention, the adapted model is overlaid onto the measured image and displayed to a user, allowing, for example, for a determination of a CTO case, which becomes obvious by a vessel branch indicated as missing.

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